

経歴書

2023年12月27日現在

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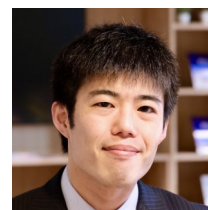
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学歴

2009年3月 広島市立舟入高等学校普通科卒業

2013年3月 島根大学 総合理工学部 物質科学科 機能材料コース 卒業

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職歴

2020年4月-現在 北海道大学 化学反応創成研究拠点(ICReDD) 猪熊グループ 特任助教

2018年4月-2020年3月 京都大学化学研究所 構造有機化学領域 特定研究員
(村田 靖次郎 教授)

受賞歴

2014年4月 島根大学学生表彰

2013年11月 2013年日本化学会中国四国支部大会 学生優秀発表賞

所属学会

日本化学会、基礎有機化学会、電子スピンサイエンス学会

外部資金獲得歴

2021年6月 令和3年度科学研究費助成事業 「2021年度若手研究」(2021年度-2022年度)

2020年8月 令和2年度ノーステック財団「研究開発助成事業」

若手研究人材・ネットワーク育成補助金 (ノースタレント補助金)

論文リスト

28. CH₃CN@open-C₆₀: An Effective Inner-Space Modification and Isotope Effect Inside a Nano-Sized Flask.

Guanglin Huang, Yuki Ide, Yoshifumi Hashikawa, Takashi Hirose, Yasujiro Murata*, *Chem. Eur. J.*, **2023**, e202301161 (page 7). (Cover Feature, Hot paper)

DOI: [10.1002/chem.202301161](https://doi.org/10.1002/chem.202301161)

27. Machine Learning-Based Analysis of Molar and Enantiomeric Ratios and Reaction Yields Using Images of Solid Mixtures.

Yuki Ide*, Hayato Shirakura, Taichi Sano, Muchuchamy Murugavel, Yuya Inaba, Sheng Hu, Ichigaku Takigawa*, Yasuhide Inokuma*, *Ind. Eng. Chem. Res.*, **2023**, *62*, 13790–13798 (DOI: [10.1021/acs.iecr.3c01882](https://doi.org/10.1021/acs.iecr.3c01882)); *ChemRxiv*, **2023** (DOI: [10.26434/chemrxiv-2023-3gdsb](https://doi.org/10.26434/chemrxiv-2023-3gdsb)).

(Cover picture, [北大プレスリリース](#), [日本経済新聞](#), [産経新聞](#), [朝日新聞デジタル](#))

26. The Geometry of Calix[3]pyrrole and the Formation of the Calix[3]pyrrole-F⁻ Complex in Solution.

Ranajit Saha*, Jenny Pirillo, Yuki Ide, Yasuhide Inokuma, Yuh Hijikata*, *Theor. Chem. Acc.*, **2023**, *142*, article number 50 (page 13). DOI: [10.1007/s00214-023-02982-1](https://doi.org/10.1007/s00214-023-02982-1)

25. Chain Length-dependent Hydrogen-Bonded Self-Assembly of Terminally Functionalized Discrete Polyketones.

Kilingaru. I. Shivakumar, Yumehiro Manabe, Tomoki Yoneda, Yuki Ide, Yasuhide Inokuma*, *Precis. Chem.*, **2023**, *1*, 34–39. DOI: [10.1021/prechem.3c00025](https://doi.org/10.1021/prechem.3c00025)

24. Chiral Calix[3]pyrrole Derivatives: Synthesis, Racemization Kinetics, and Ring Expansion to Calix[9]- and Calix[12]pyrrole Analogues.

Yuya Inaba, Jian Yang, Yu Kakibayashi, Tomoki Yoneda, Yuki Ide, Yuh Hijikata, Jenny Pirillo, Ranajit Saha, Jonathan L. Sessler*, Yasuhide Inokuma*, *Angew. Chem. Int. Ed.*, **2023**, e202301460 (page 6). DOI: [10.1002/anie.202301460](https://doi.org/10.1002/anie.202301460)

23. Toward Calix[2]-type Macrocycles: Synthesis and Structural Analysis of Cyclic Tetraketone and Highly Strained Furanophane.

Taichi Sano, Yuhua Sun, Taichi Mukai, Yuya Inaba, Tomoki Yoneda, Yuki Ide, Jenny Pirillo*, Yuh Hijikata*, Yasuhide Inokuma*, *J. Porphyrin Phthalocyanines*, **2023**, *27*, 1067–1073.

DOI: [10.1142/S1088424623500189](https://doi.org/10.1142/S1088424623500189)

22. Absorption Spectra of Calix[3]pyrrole Analogues as Probes for Contracted Macrocycles.

Keita Watanabe, Ranajit Saha, Yuya Inaba, Yumehiro Manabe, Tomoki Yoneda, Yuki Ide, Yuh Hijikata, Yasuhide Inokuma*, *J. Porphyrin Phthalocyanines*, **2023**, *27*, 157–163.
DOI: [10.1142/S1088424622500754](https://doi.org/10.1142/S1088424622500754)

21. Determination of the Critical Chain Length for Macromolecular Crystallization Using Structurally Flexible Polyketones.

Yuki Ide, Yumehiro Manabe, Yuya Inaba, Yusuke Kinoshita, Jenny Pirillo, Yuh Hijikata*, Tomoki Yoneda, Kilingaru I. Shivakumar, Saki Tanaka, Hitoshi Asakawa, Yasuhide Inokuma*, *Chem. Sci.*, **2022**, *13*, 9848–9854. (Outside front cover, 2022 ChemSci Pick of the Week, 2022 Chemical Science HOT Article, [北大プレスリリース](#)) DOI: [10.1039/d2sc03083g](https://doi.org/10.1039/d2sc03083g)

20. Alkali Metal Ion Binding using Cyclic Polyketones.

Narito Ozawa, Kilingaru I. Shivakumar, Muthuchamy Murugavel, Yuya Inaba, Tomoki Yoneda, Yuki Ide, Jenny Pirillo, Yuh Hijikata, Yasuhide Inokuma*, *Chem. Commun.*, **2022**, *58*, 2971–2974. (Inside front cover and Hot Article)
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19. Strain-Induced Ring Expansion Reactions of Calix[3]pyrrole-Related Macrocycles.

Yuya Inaba, Yu Kakibayashi, Yuki Ide, Jenny Pirillo, Yuh Hijikata, Tomoki Yoneda, Yasuhide Inokuma*, *Chem. Eur. J.*, **2022**, *28*, e202200056. (Hot Paper)
DOI: [10.1002/chem.202200056](https://doi.org/10.1002/chem.202200056)

18. An H₂O₂ Molecule Stabilized inside Open-Cage C₆₀ Derivatives by a Hydroxy Stopper.

Guanglin Huang, Shota Hasegawa, Yoshifumi Hashikawa, Yuki Ide, Takashi Hirose, Yasujiro Murata*, *Chem. Eur. J.*, **2022**, *28*, e202103836. (Very Important Paper)
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17. Isopyrazole-Masked Tetraketone: Tautomerism and Functionalization for Fluorescent Metal Ligands.

Hayato Shirakura, Yumehiro Manabe, Chika Kasai, Yuya Inaba, Makoto Tsurui, Yuichi Kitagawa, Yasuchika Hasegawa, Tomoki Yoneda, Yuki Ide, Yasuhide Inokuma*, *Eur. J. Org. Chem.*, **2021**, 4345–4349. DOI: [10.1002/ejoc.202100784](https://doi.org/10.1002/ejoc.202100784)

16. Calix[3]pyrrole: A Missing Link in Porphyrin-Related Chemistry.

Yuya Inaba, Yu Nomata, Yuki Ide, Jenny Pirillo, Yuh Hijikata, Tomoki Yoneda, Atsuhiko Osuka, Jonathan L. Sessler*, Yasuhide Inokuma*, *J. Am. Chem. Soc.*, **2021**, *143*, 12355–12360. ([北大プレスリリース](#)) DOI: [10.1021/jacs.1c06331](https://doi.org/10.1021/jacs.1c06331)

15. Reversible Redox System of 2 - Oxypyritriphyrin(1.2.1) Accompanying Interconversion between 3 - Pyridone and 3 - Hydroxypyridine Units.

Su-Gi Chong, Tomoki Yoneda*, Yuki Ide, Saburo Neya*, *Chem. Asian J.*, **2021**, *16*, 1077–1080.
DOI: [10.1002/asia.202100200](https://doi.org/10.1002/asia.202100200)

14. Insoluble π - Conjugated Polyimine as An Organic Adsorbent for Group 10 Metal Ions.

Hayato Shirakura, Yuh Hijikata*, Jenny Pirillo, Tomoki Yoneda, Yumehiro Manabe, Muthuchamy Murugavel, Yuki Ide*, Yasuhide Inokuma*,
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13. Aliphatic Polyketones as Classic Yet New Molecular Ropes for Structural Diversity in Organic Synthesis.

Yasuhide Inokuma*, Tomoki Yoneda, Yuki Ide, Shota Yoshioka,
Chem. Commun., **2020**, *56*, 9079–9093. (Future Article) DOI: [10.1039/d0cc02977g](https://doi.org/10.1039/d0cc02977g)

12. Singlet Oxygen Generation of Subphthalocyanine-fused Dimer and Trimer.

Rei Fujishiro, Hayato Sonoyama, Yuki Ide, Takuya Fujimura, Ryo Sasai, Nichole E.M. Kaufman, Zehua Zhou, M. Graça H. Vicente, Takahisa Ikeue*,
J. Porphyrins Phthalocyanines, **2019**, *24*, 211–219. DOI: [10.1142/S1088424619500895](https://doi.org/10.1142/S1088424619500895)

11. Coordination-Induced Spin-State Switching of An Aminyl-Radical-Bridged Nickel(II) Porphyrin Dimer between Doublet and Sextet States.

Daiki Shimizu, Yuki Ide, Takahisa Ikeue, Atsuhiko Osuka*,
Angew. Chem. Int. Ed., **2019**, *58*, 5023–5027. DOI: [10.1002/anie.201900792](https://doi.org/10.1002/anie.201900792)

10. Synthesis, Photodynamic Activities, and Cytotoxicity of New Water-soluble Cationic Gallium(III) and Zinc(II) Phthalocyanines.

Rei Fujishiro, Hayato Sonoyama, Yuki Ide, Takuya Fujimura, Ryo Sasai, Atsushi Nagai*, Shigeki Mori, Nichole E.M. Kaufman, Zehua Zhou, M. Graça H. Vicente, Takahisa Ikeue*,
J. Inorg. Biochem., **2019**, *192*, 7–16. DOI: [10.1016/j.jinorgbio.2018.11.013](https://doi.org/10.1016/j.jinorgbio.2018.11.013)

9. Benzonorcorrole Ni^{II} Complexes: Enhancement of Paratropic Ring Current and Singlet Diradical Character by Benzo-Fusion.

Takuya Yoshida, Kohtaro Takahashi, Yuki Ide, Ryohei Kishi, Jun-ya Fujiyoshi, Sangsu Lee, Yuya Hiraoka, Dongho Kim, Masayoshi Nakano*, Takahisa Ikeue, Hiroko Yamada, Hiroshi Shinokubo*, *Angew. Chem. Int. Ed.*, **2018**, *57*, 2209–2213. DOI: [10.1002/anie.201712961](https://doi.org/10.1002/anie.201712961)

8. Nickel (II) Pyrrocorphin: Enhanced Binding Ability in A Highly Reduced Porphyrin Complexes.

Yuki Ide, Takamitsu Kuwahara, Syo Takeshita, Rei Fujishiro, Masaaki Suzuki, Shigeki Mori, Hiroshi Shinokubo, Mikio Nakamura, Katsumi Yoshino, Takahisa Ikeue*,
J. Inorg. Biochem., **2018**, *178*, 115–124. DOI: [10.1016/j.jinorgbio.2017.10.012](https://doi.org/10.1016/j.jinorgbio.2017.10.012)

7. Crystal Structure of A Six-coordinated [5,10,15,20-Tetrakis(2,4,6-trimethylphenyl) Porphyrinato- k^4N]Iron(III) Complex with Two 3,5-Dimethylpyridine N -Oxides.

Yuki Ide, Haruka Hosoda, Hiroki Ishimae, Shigeki Mori, Takahisa Ikeue*,
X-ray Struct. Anal. Online, **2017**, *33*, 49–51. DOI: [10.2116/xraystruct.33.49](https://doi.org/10.2116/xraystruct.33.49)

6. Crystal Structure of A Six-coordinated (2,3,7,8,12,13,17,18- Octaethyl porphyrinato)Iron(III) Complex with Two 4-Methylpyridine N -Oxides.

Yuki Ide, Yuya Yamada, Shigeki Mori, Takahisa Ikeue*,
X-ray Struct. Anal. Online, **2017**, *33*, 25–27. DOI: [10.2116/xraystruct.33.25](https://doi.org/10.2116/xraystruct.33.25)

5. Different Antiferromagnetic Coupling between 5,5'- and 10,10'-Linked Iron(III) Corrole Dimers.

Takayuki Tanaka*, Shota Ooi, **Yuki Ide**, Takahisa Ikeue*, Masaaki Suzuki, Peter. P.-Y. Chen, Masashi Takahashi, Atsuhiko Osuka*,
Eur. J. Inorg. Chem., **2017**, *10*, 1374–1381. DOI: [10.1002/ejic.201601363](https://doi.org/10.1002/ejic.201601363)

4. Molecular Structure and Spectroscopic Properties of [2,3,9,10,16,17,23,24- octakis(3-carboxyphenoxy) Phthalocyaninato- k^4N](Pyridine- kN) Zinc(II) Pyridine Octasolvate.

Rei Fujishiro, Hayato Sonoyama, **Yuki Ide**, Shigeki Mori*, Tamotsu Sugimori, Atsushi Nagai, Katsumi Yoshino, Mikio Nakamura, Takahisa Ikeue*,
Heterocycles, **2017**, *94*, 131–139. DOI: [10.3987/COM-16-13608](https://doi.org/10.3987/COM-16-13608)

3. Spin-crossover between High-spin ($S = 5/2$) and Low-spin ($S = 1/2$) States in Six-coordinate Iron(III) Porphyrin Complexes having Two Pyridine- N Oxide Derivatives.

Yuki Ide, Nami Murai, Hiroki Ishimae, Masaaki Suzuki, Shigeki Mori*, Masashi Takahashi*, Mikio Nakamura*, Katsumi Yoshino, Takahisa Ikeue*,
Dalton Trans., **2017**, *46*, 242–249. DOI: [10.1039/c6dt03859j](https://doi.org/10.1039/c6dt03859j)

2. Preparation, Structure, and Dynamic and Electrochemical Behaviors of Dinuclear Rhodium(I) Complexes with Bridging Formamidinato Ligands.

Yuki Ide, Takahisa Ikeue*, Yusuke Kataoka, Ryoko Inoue, Mikio Nakamura*, Daisuke Yoshioka, Masahiro Mikuriya, Tatsuya Kawamoto, Makoto Handa*,
J. Organomet. Chem., **2016**, *803*, 92–103. DOI: [10.1016/j.jorganchem.2015.12.018](https://doi.org/10.1016/j.jorganchem.2015.12.018)

1. Synthesis, Structures, and Properties of Lantern-type Dinuclear Ruthenium(II,III) Complexes cis-[Ru₂{3,5-(CF₃)₂-pf}₂(O₂CMe)₂Cl] and [Ru₂{3,5-(CF₃)₂-pf}₃(O₂CMe)Cl], 3,5-(CF₃)₂-pf⁻ = *N,N'*-bis[3,5-bis(trifluoromethyl)phenyl] Formamidinate Anion.

Yasuko Harada, Takahisa Ikeue*, Yuki Ide, Yuko Kimura, Ichiro Hiromitsu, Daisuke Yoshioka, Masahiro Mikuriya*, Yusuke Kataoka*, Makoto Handa*,
Inorg. Chim. Acta, **2015**, *424*, 186–193. DOI: [10.1016/j.ica.2014.07.076](https://doi.org/10.1016/j.ica.2014.07.076)

雑誌寄稿リスト

1. ポルフィリノイド化合物の物性解析および PDT への応用

井手 雄紀

月刊「細胞」, **2022**, *54*, 42–43.